



JCO6 Rec'd PCT/PTO 15 SEP 2005 p CT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): SALOMA et al.  
Serial No.: 10/529,043  
For: TWO COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED  
EXCITATION BEAMS AND RAMAN SHIFTER  
Filed: March 24, 2005  
Examiner: Not Yet Assigned  
Art Unit: Not Yet Assigned  
Confirmation No.: 6211  
Customer No.: 27,623

Attorney Docket No.: 0002200USU/2280

Mail Stop Missing Parts  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**TRANSMITTAL OF MISSING PARTS OF APPLICATION AND  
PAYMENT OF SURCHARGE UNDER 37 C.F.R. §1.16(e)**

Transmitted herewith are the following documents pertaining to the above-identified application:

- XXX** Letter re: Declaration and Power of Attorney **previously filed under 4.17**;
- XXX** The undersigned attorney has verified that the above-identified applicant is entitled to Small Entity Status.;
- \_\_\_\_\_ Sheets of Replacement Drawings;
- \_\_\_\_\_ An Assignment of the Invention to : \_\_\_\_\_ including \$40.00 recordation fee and Assignment Recordation Cover Sheet;
- \_\_\_\_\_ A Certified Copy of the Priority Application;
- \_\_\_\_\_ Information Disclosure Statement (Form - 1449); and
- XXX** A copy of the Notice to File Missing Parts of Application Filing Date Granted.
- \_\_\_\_\_ Petition and Fee for Extension of Time (37 CFR 1.136(A)).

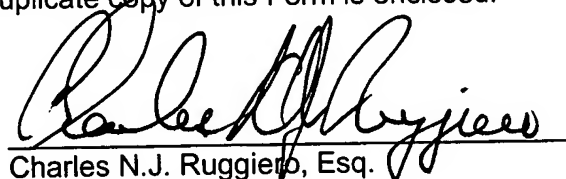
The Filing Fee is calculated below.

CLAIMS AS FILED				
(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$300.00
Total Claims	- 20 =	0	x \$50.00	\$
Independent Claims	- 3 =	0	x \$200.00	\$
Multiple Dependent Claim Fee		x \$360.00 = \$0.00		
SEARCH FEE		\$500.00		
EXAMINATION FEE		\$200.00		
NATIONAL STAGE APPLICATION SIZE FEE (\$250 FOR EACH ADDITIONAL 50 SHEETS OVER 100 SHEETS)		\$		
TOTAL FILING FEE		\$		
1/2 FILING FEE FOR SMALL ENTITY		\$		

     A check in the amount of \$\_\_\_\_\_ to cover the surcharge is enclosed.

X The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§1.16 and 1.17 which may be required with this communication or during the entire pendency of the application, or credit any overpayment, to **Deposit Account No. 01-0467**. A duplicate copy of this Form is enclosed.

September 13, 2005  
Date


  
Charles N.J. Ruggiero, Esq.  
Attorney for Applicant(s)  
Registration No. 28,468  
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.  
One Landmark Square, 10<sup>th</sup> Floor  
Stamford, Connecticut 06901-2682  
Telephone: (203) 327-4500  
Telefax: (203) 327-6401

09/23/2005 HIKAYPAGH 00000122 010467 10529043  
01 FC#2617 65.00 DA

**CERTIFICATE OF MAILING**

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: MAIL STOP MISSING PARTS, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON September 13, 2005.

Michelle M Bombino  
NAME

  
SIGNATURE

9/13/05  
DATE



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): SALOMA et al.

Serial No.: 10/529,043

For: TWO COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED  
EXCITATION BEAMS AND RAMAN SHIFTER

Filed: March 24, 2005

Examiner: Not Yet Assigned

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Attorney Docket No.: 0002200USU/2280

**Mail Stop Missing Parts  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**RESPONSE**

Dear Sir:

Pursuant to our conversation with Lamont M. Hunter of September 7, 2005, we are responding to the Notice of Missing Parts dated July 28, 2005, which states that we must submit an oath or declaration of the inventors. Please note that the Declaration and Power of Attorney for the above-identified application was previously filed under the PCT application in 4.17(iv).

We are enclosing a copy of the filing transmittal submitted for the purpose of entering the U.S. National Stage, as well as a copy of the PCT publication (abstract sheet). We are also enclosing the return postcard.

If the United States Patent and Trademark Office determines that our finding is in error, please contact our office immediately.

September 13, 2005  
Date

Respectfully submitted,

Charles N.J. Ruggiero, Esq.  
Attorney for Applicant(s)  
Registration No. 28,468  
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.  
One Landmark Square, 10<sup>th</sup> Floor  
Stamford, Connecticut 06901-2682  
Telephone: (203) 327-4500  
Telefax: (203) 327-6401



**UNITED STATES PATENT APPLICATION TRANSMITTAL FORM**

Mail Stop PCT  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attention: DO/EO/US

Docket No.: 0002200USU/2280

Customer No.: 27623

Dear Sir:

Transmitted herewith for filing is the patent application of

Applicant(s): **Caesar A. SALOMA; Jonathan A. PALERO  
and Wilson O. GARCIA**

For: **TWO-COLOR (TWO-PHOTON) EXCITATION  
WITH FOCUSED EXCITATION BEAMS AND  
A RAMAN SHIFTER**

International Application No.: **PCT/PH2002/00018**

International Filing Date: **27 September 2002**

**ENTERING OF U.S. NATIONAL STAGE UNDER 35 U.S.C. §371**

Transmitted herewith for filing are the following documents submitted under 37 C.F.R. §1.495(b) for the purpose of entering the national stage in the United States of America as an elected office. Enclosed are:

XXXXX Specification (15 pps.) consisting of: Description (11 pps.); Claims (4 pps.) and Abstract (0 page);

       Declaration and Power of Attorney (**previously filed under 4.17(iv)**);

XXXXX   3   sheets of drawings;

       Preliminary Amendment;

       An Assignment of the invention to: \_\_\_\_\_,  
including \$40.00 recordation fee and recordation cover sheet;

       Information Disclosure Statement with copies of patent(s) (Form - PTO-1449);

XXXXX The undersigned attorney has verified that the applicant is entitled to a Small Entity Status;

**EV562406353US**

XXXXX Priority of application Serial No. **PCT/PH2002/000018**, filed on **27 September 2002** in **PCT** is claimed under 35 U.S.C. §119 and 35 U.S.C. §365;

XXXXX Cover page of published PCT Publication No. **WO 2004/029690**;

\_\_\_\_\_ Copy of International Preliminary Examination dated \_\_\_\_\_;

\_\_\_\_\_ Copy of PCT Demand Under Article 31; and

XXXXX Copy of International Search Report dated **17 March 2003**;

\_\_\_\_\_ Copy of Written Opinion.

\_\_\_\_\_ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are transmitted herewith.

The Filing Fee is calculated below.

CLAIMS AS FILED				
(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$300.00
Total Claims	24 - 20 =	4	x \$50.00	\$200.00
Independent Claims	2 - 3 =	0	x \$200.00	\$
Multiple Dependent Claim Fee		x \$360.00 = \$0.00		
SEARCH FEE		\$500.00		
EXAMINATION FEE		\$200.00		
NATIONAL STAGE APPLICATION SIZE FEE (\$250 FOR EACH ADDITIONAL 50 SHEETS OVER 100 SHEETS)		\$		
TOTAL FILING FEE		\$1,200.00		
1/2 FILING FEE FOR SMALL ENTITY		\$600.00		

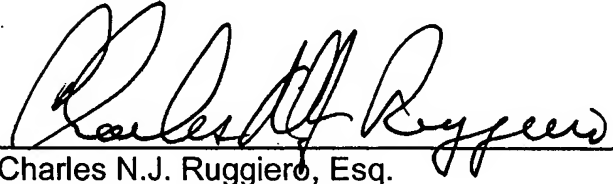
XXX Firm's check in the amount of \$ 600.00 to cover the filing fee (small entity);

XXX — The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required with this communication or during the entire pendency of the application, or credit any overpayment, to **Deposit Account No. 01-0467**. A duplicate copy of this Form is enclosed.

XXX Postcard.

Address all future communications to: **Charles N.J. Ruggiero, Esq.**  
**Ohlandt , Greeley, Ruggiero & Perle, L.L.P.**  
**One Landmark Square, 10th Floor**  
**Stamford, Connecticut 06901-2682**  
**U.S.A.**

Dated: March 24, 2005




Charles N.J. Ruggiero, Esq.  
Registration No. 28,468  
Attorney for Applicant(s)  
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.  
Telephone: (203) 327-4500  
Telefax: (203) 327-6401

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Certificate No. **EV562406353US**, service under 37 CFR §1.10 and is addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attn: DO/EO/US on March 24, 2005.

Joanne A. Romaniello  
(Typed name of person mailing paper)



(Signature of person mailing paper)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number  
**WO 2004/029690 A1**

(51) International Patent Classification<sup>7</sup>: **G02B 21/00, G01N 33/487**

(21) International Application Number:  
**PCT/PH2002/000018**

(22) International Filing Date:  
**27 September 2002 (27.09.2002)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(71) Applicants and

(72) Inventors: **SALOMA, Caesar, A. [PH/PH]**; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH). **PALERO, Jonathan, A. [PH/PH]**; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH). **GARCIA, Wilson, O. [PH/PH]**; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH).

(74) Agent: **VILLARAZA & ANGANGCO LAW OFFICES AND ITS ATTORNEYS**; 5th Floor, LTA Building, 118 Perea Street, Legaspi Village, 1229 Makati City (PH).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

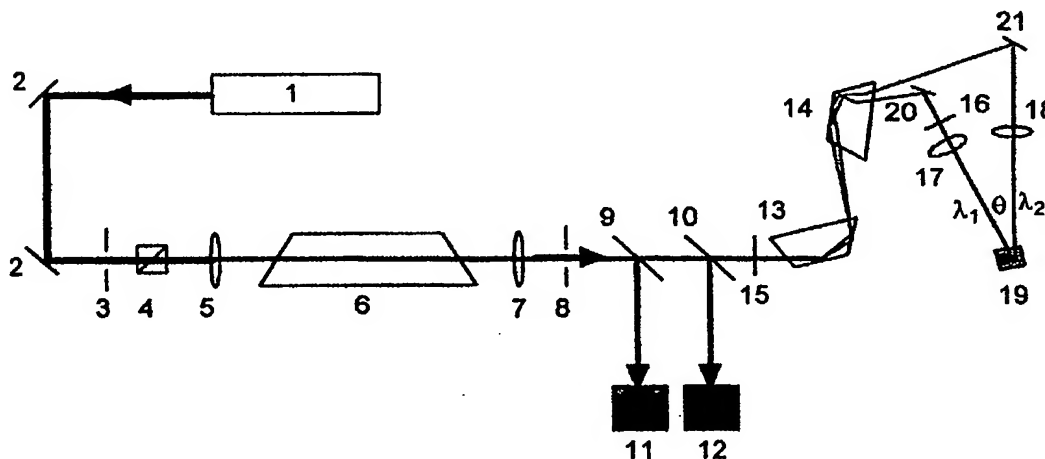
- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

**Published:**

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **TWO-COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED EXCITATION BEAMS AND A RAMAN SHIFTER**



(57) Abstract: Two-color (two-photon) excitation with two confocal excitation beams is demonstrated with a Raman shifter as excitation light source. Two-color excitation fluorescence is obtained from Coumarin 6H dye sample (peak absorption = 394 nm, peak fluorescence = 490 nm) that is excited using the first two Stokes outputs (683 nm, 954 nm, two-color excitation = 398 nm) of a Raman shifter pumped by a 6.5 nsec pulsed 532 nm-Nd:YAG laser (Repetition rate = 10 Hz). The two Stokes pulses overlap for a few nanoseconds and two-color fluorescence is generated even with focusing objectives of low numerical apertures ( $NA \leq 0.4$ ). We observed the linear dependence of the two-color fluorescence signal with the product of the average intensities of the two Stokes excitation beams. The two-color fluorescence distribution is strongly localized around the common focus of the confocal excitation beams.

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WO 2004/029690 A1

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2399 STAMFORD, CT 06901

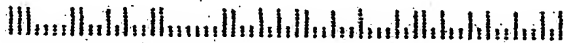
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Stamford, Connecticut 06901-2682

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APR 15 2005

OHLANDT, GREELEY  
RUGGIERO & PERLE, LLP



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File No.: 000220005072280 JCO2 Rec'd PCT/PTO 24 MAR 2005 Application No.:

10/529043  
SERIAL NUMBER NOTIFICATION

APPLICATION BRANCH: Please stamp Serial Number assigned to this case and return card to sender.

Applicant(s): *Cesar A. Saloma; Jonathan A. Palero & Wilson D. Garcia*

Title: *Two-Color (Two-Photon) Excitation With Focused Excitation Beams and a Raman Shifter*

<input checked="" type="checkbox"/> 15 Total # of Pages of Specification	<input checked="" type="checkbox"/> Verified Statement Claiming Small Entity
<input checked="" type="checkbox"/> 11 Sheets of Description	<input type="checkbox"/> IDS and PTO Form 1449 (w/copies of references)
<input checked="" type="checkbox"/> 4 Sheets of Claims	<input type="checkbox"/> Preliminary Amendment
<input checked="" type="checkbox"/> 2 Sheets of Abstract	<input type="checkbox"/> Provisional Application Cover Sheet
<input checked="" type="checkbox"/> 3 Sheets of Drawings	<input type="checkbox"/> Rule 53(b) Continuation/Divisional
<input checked="" type="checkbox"/> Combined Declaration & POA	<input checked="" type="checkbox"/> Other: <i>Copy of PCT Publn, ISR</i>
<input type="checkbox"/> Assignment w/recordation sheet	<input type="checkbox"/> Transmittal Letter (in duplicate)
<input type="checkbox"/> Priority Document	

A check in the amount of \$ *600<sup>00</sup>* (# *14837*) is also attached hereto.

Mailed *March 24, 2005* ☐ COM ☒ COEM # *EV562406353U*





## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/529,043	Caesar A Saloma	0002200USU/2280

INTERNATIONAL APPLICATION NO.
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PCT/PH02/00018

IA. FILING DATE	PRIORITY DATE
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09/27/2002

charles N J Ruggiero  
 Ohlandt Greeley Reggiero & Perle  
 One Landmark Square Perle  
 Stamford, CT 06901-2682

CONFIRMATION NO. 6211

371 FORMALITIES LETTER



\*OC000000016633871\*

Date Mailed: 07/28/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 03/24/2005
- Copy of the International Search Report filed on 03/24/2005
- Small Entity Statement filed on 03/24/2005
- Request for Immediate Examination filed on 03/24/2005
- U.S. Basic National Fees filed on 03/24/2005

RECEIVED

AUG 02 2005

OHLANDT, GREELEY,  
 RUGGIERO & PERLE, LLP

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the international application number and international filing date.
- \$65 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

## SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

- \$65 Late oath or declaration Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

LAMONT M HUNTER

Telephone: (703) 308-9140 EXT 201

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/529,043	PCT/PH02/00018	0002200USU/2280

FORM PCT/DO/EO/905 (371 Formalities Notice)